

FIG. 1A

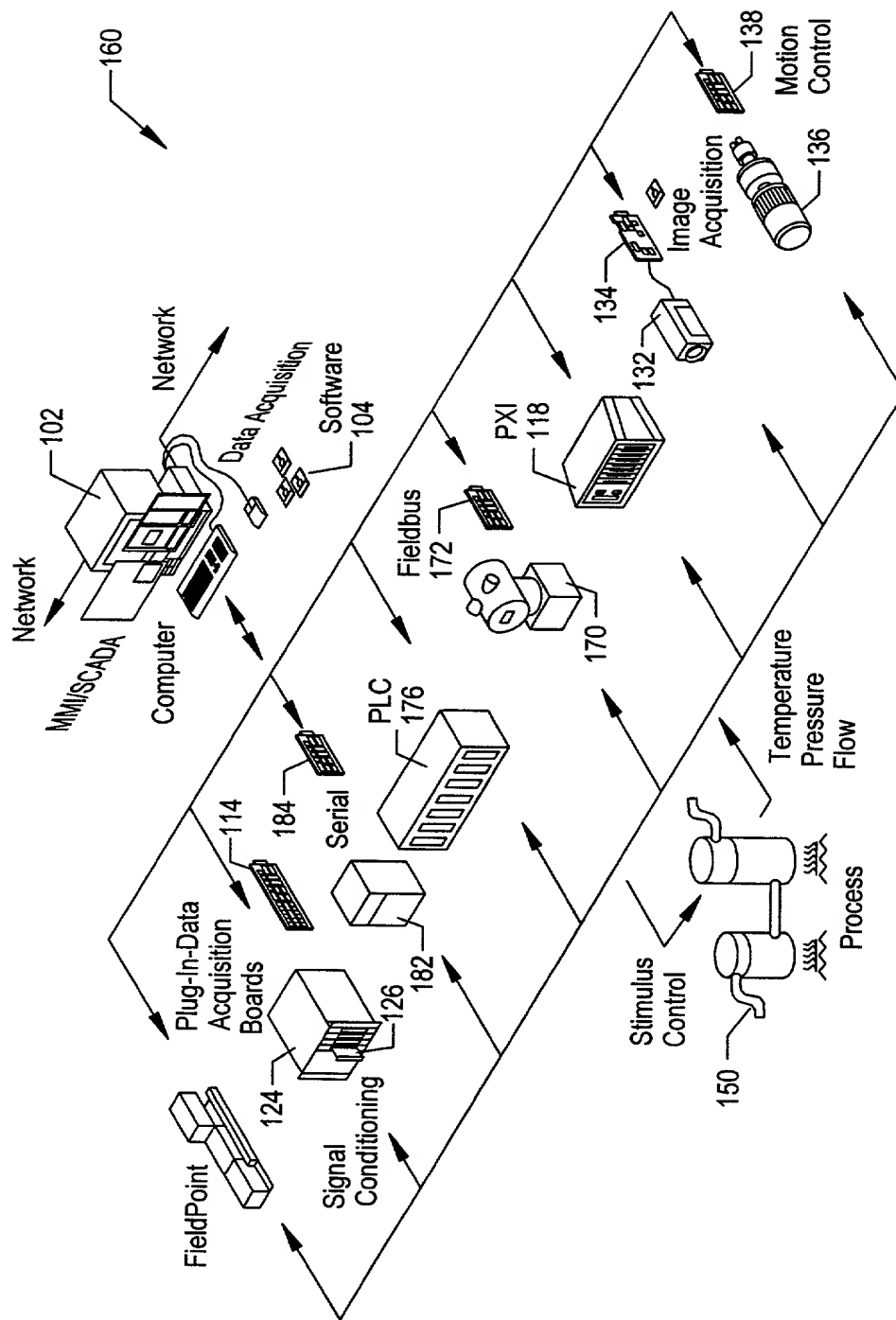


FIG. 1B

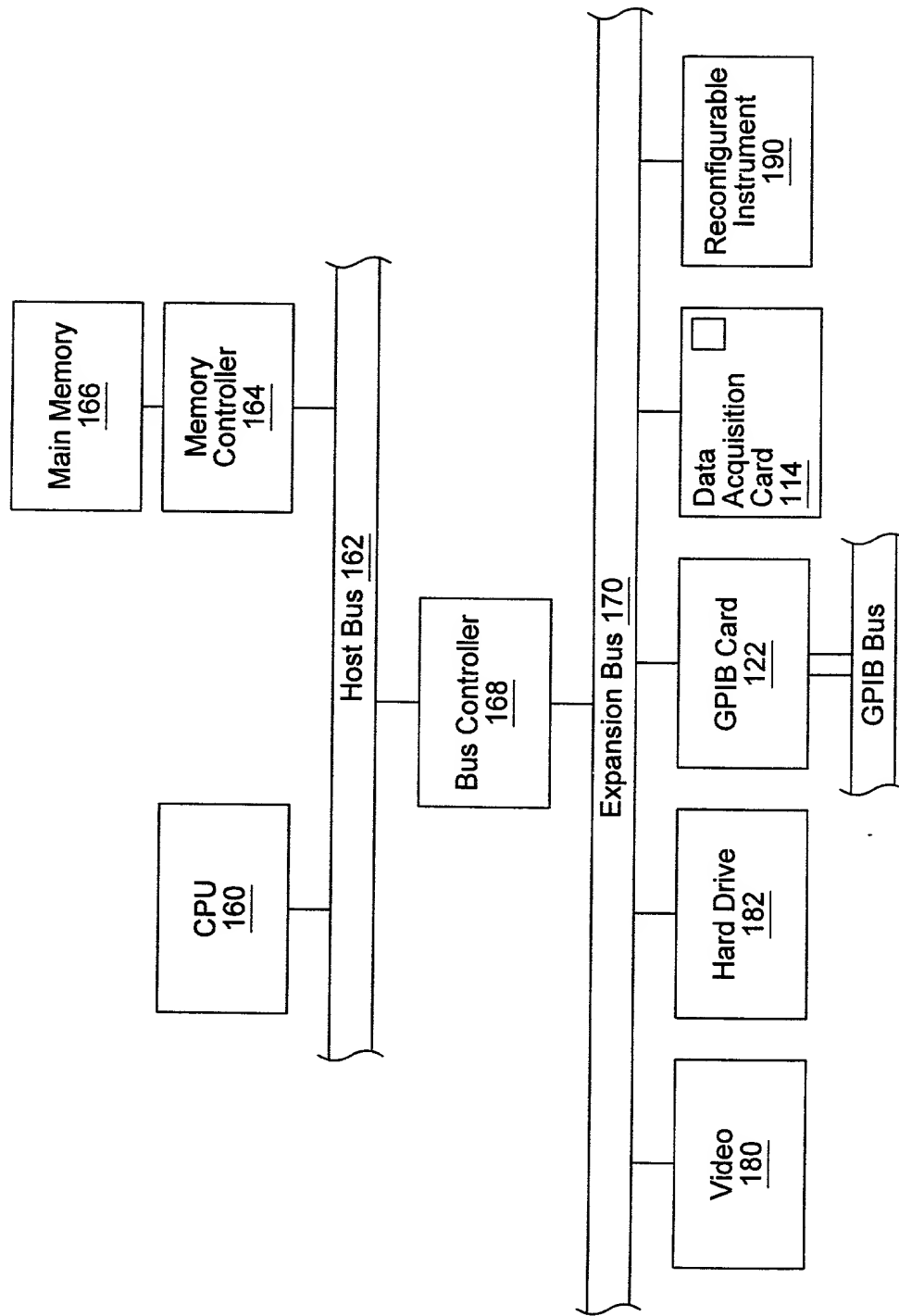


FIG. 2

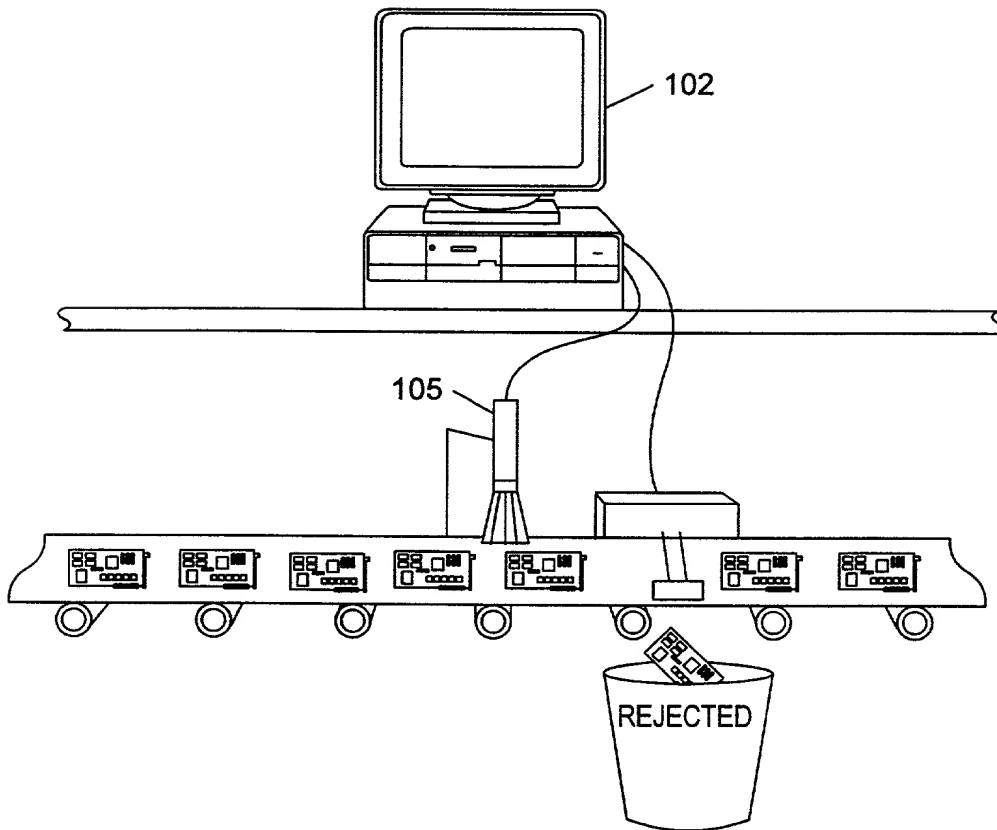


FIG. 3

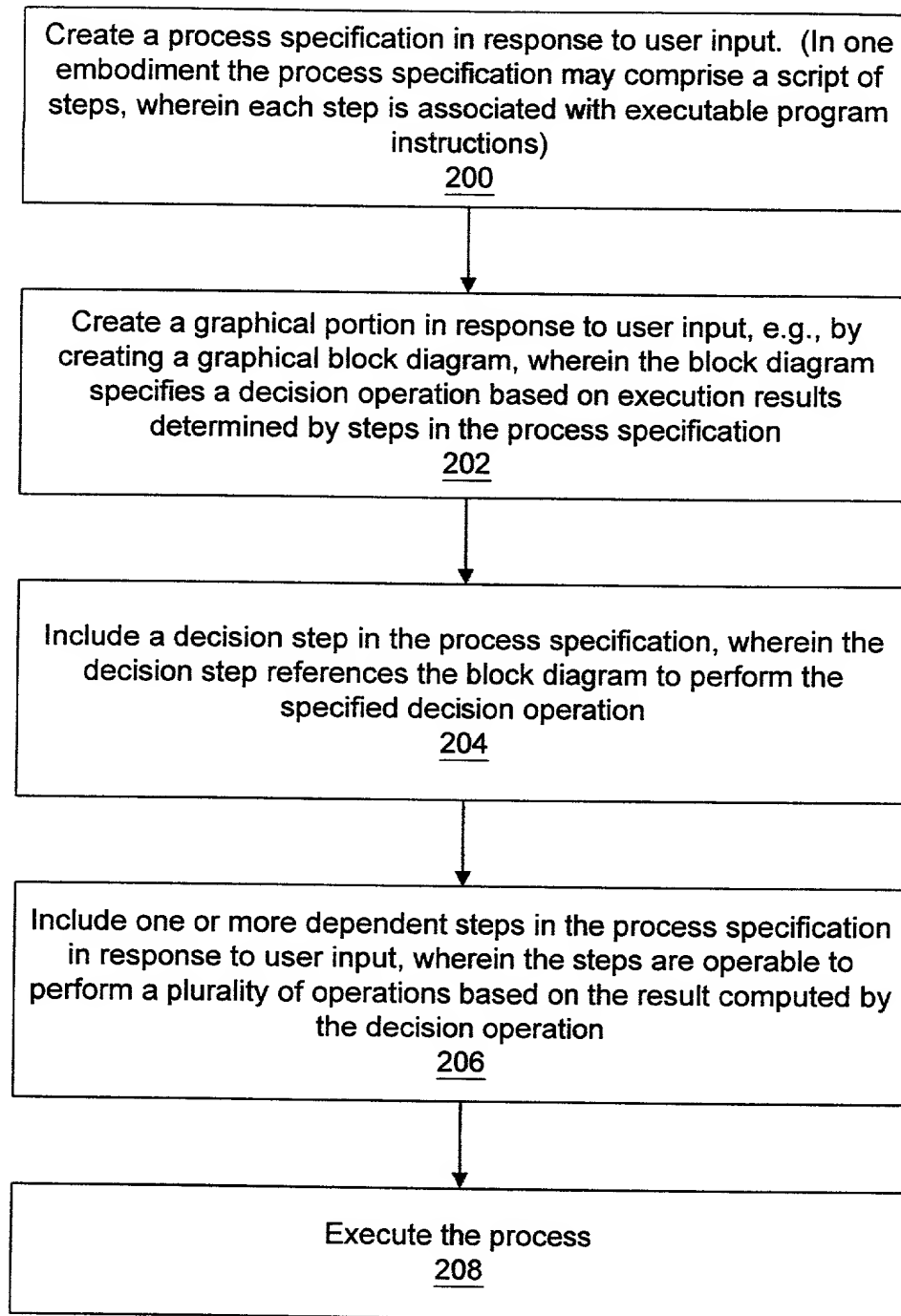


FIG. 4

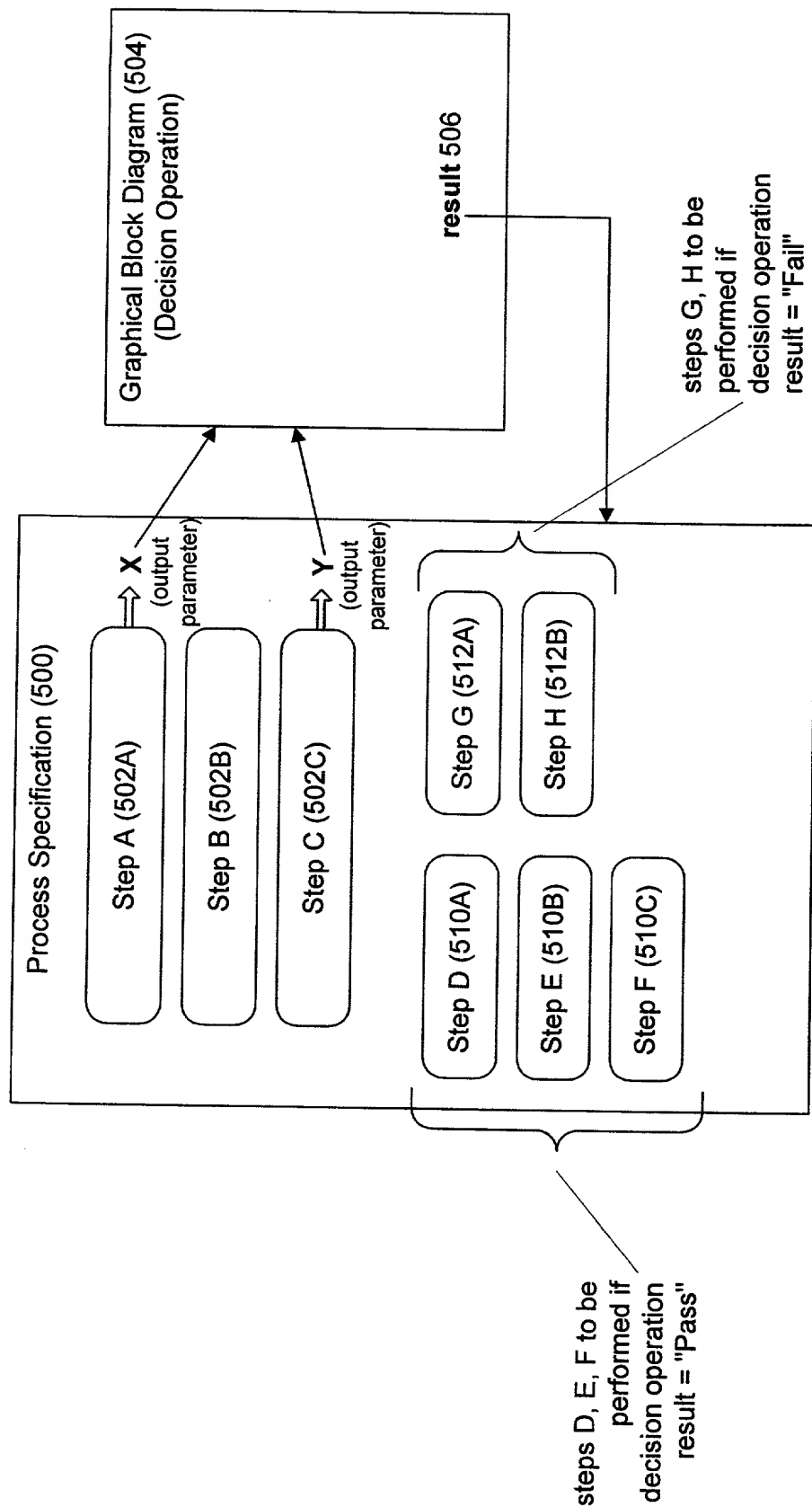


FIG. 5

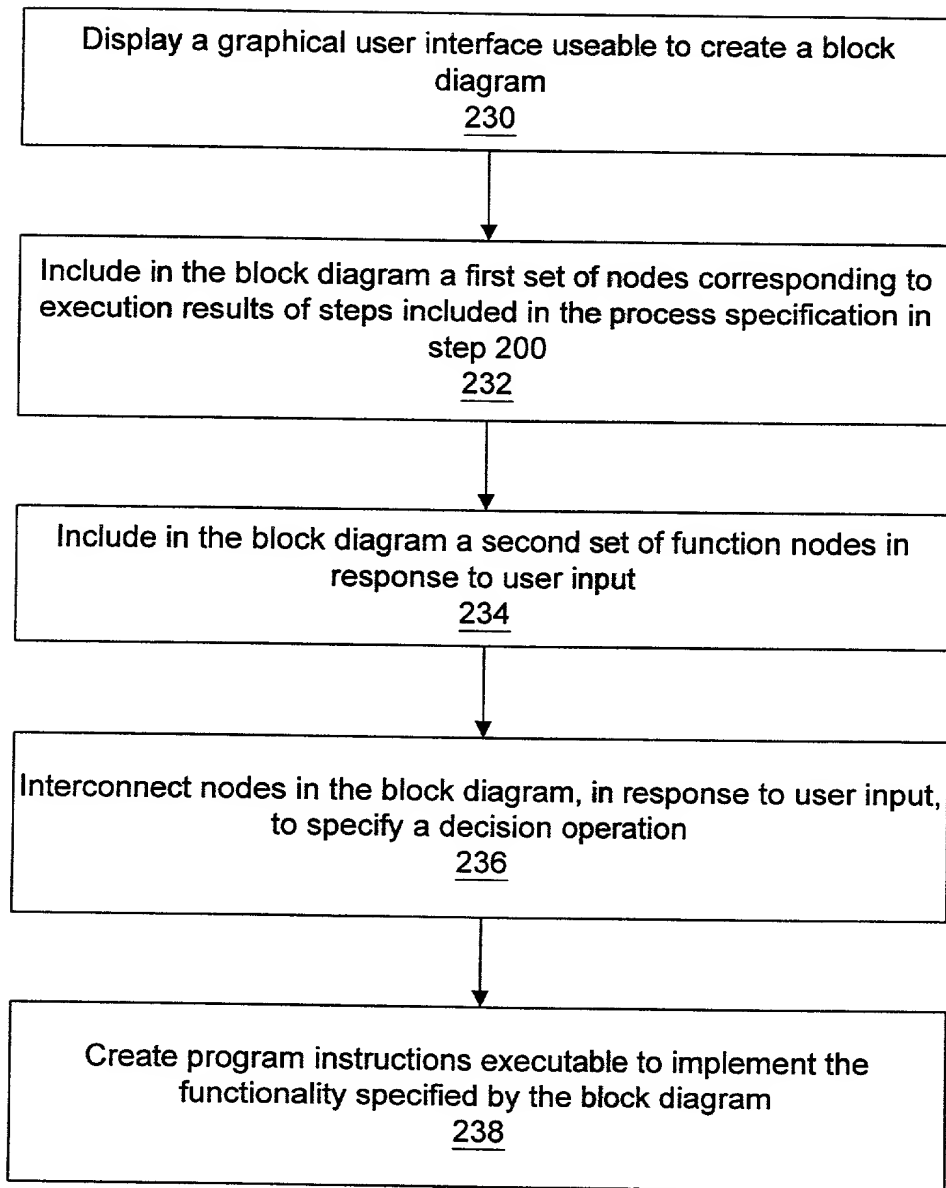


FIG. 6

Include a plurality of machine vision steps in a script in response to user input, wherein the plurality of machine vision steps is executable to analyze an acquired image of a device

260

Create a block diagram in response to user input, wherein the block diagram specifies a decision operation based on execution results of at least a subset of the plurality of machine vision steps

262

Include a decision step in the script, wherein the decision step is executable to perform the decision operation specified by the block diagram to compute an inspection result based on execution results of the at least a subset of the plurality of machine vision

steps

264

Include one or more steps in the script in response to user input, wherein the steps are executable to perform a plurality of operations (e.g., accept or reject the device) based on the inspection result computed by the decision operation

268

Execute the process one or more times to inspect one or more devices (e.g., as the devices are manufactured on an assembly

line)

270

FIG. 7



FIG. 8

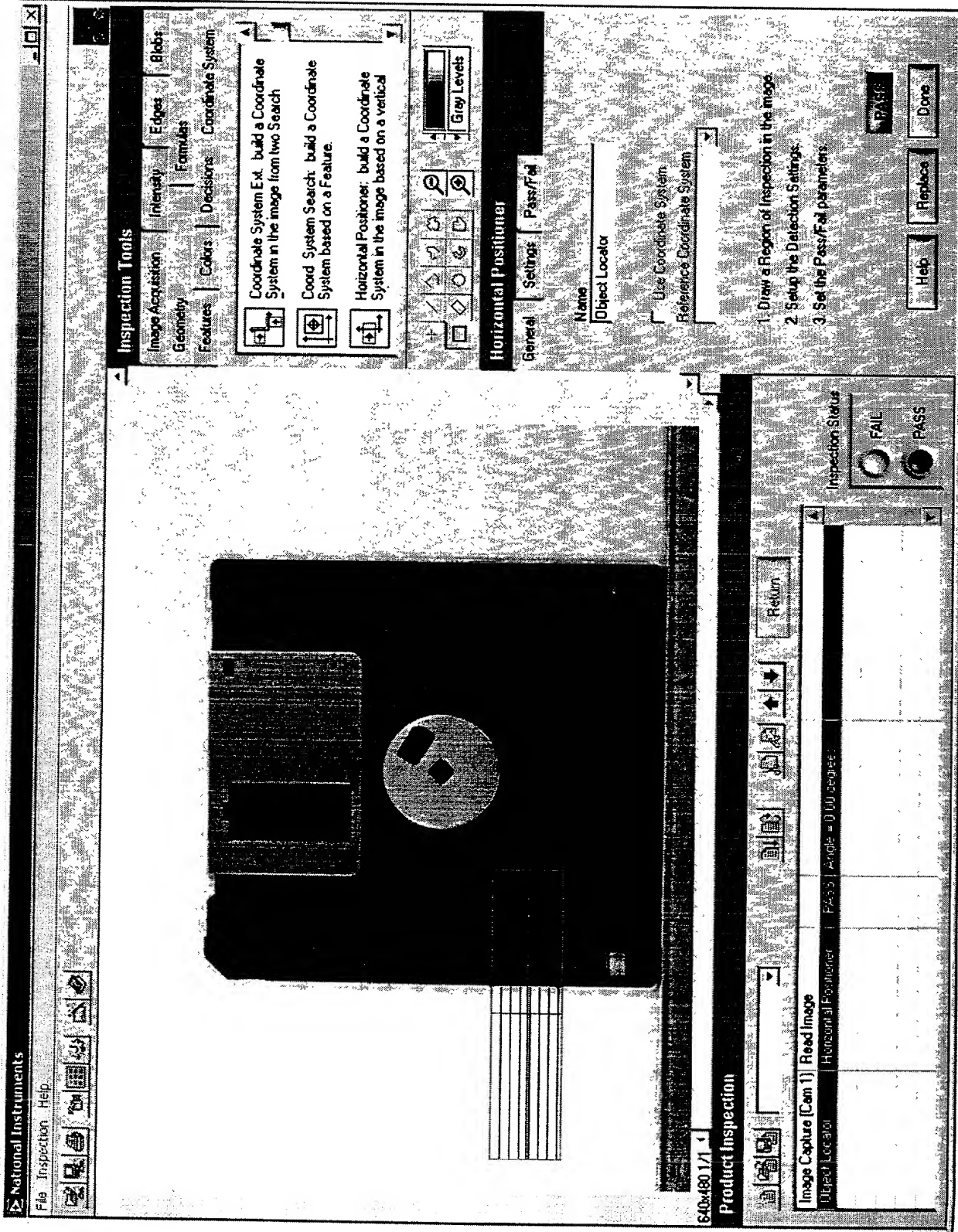


FIG. 9

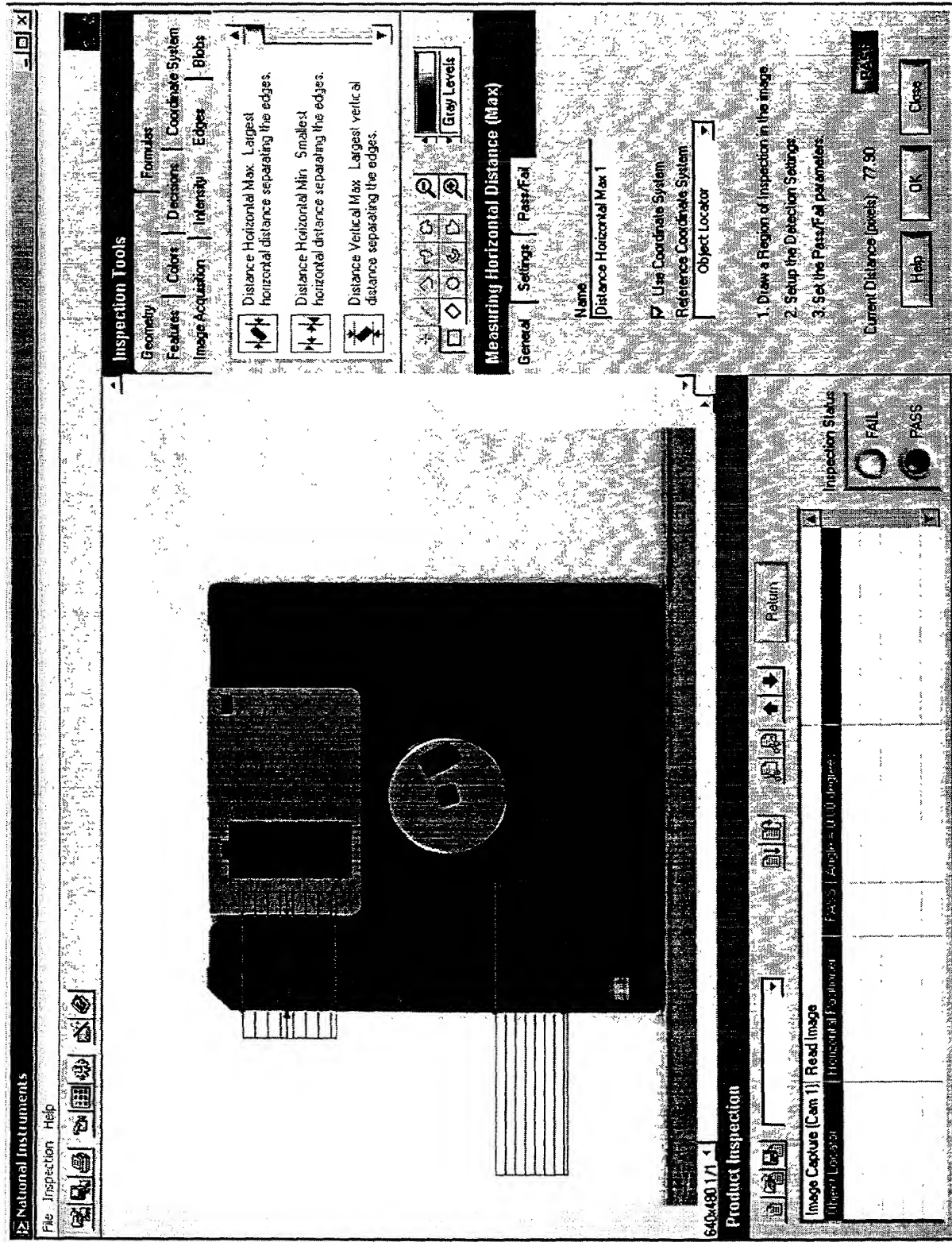


FIG. 10

Measuring Horizontal Distance (Max)

General

Settings

Pass/Fail

Name

Flap Position

☒ Use Coordinate System

Reference Coordinate System

Object Locator

1. Draw a Region of Inspection in the image

2. Setup the Detection Settings

3. Set the Pass/Fail parameters

Current Distance (pixels): 77 90

Help

OK

Close

Pass

FIG. 11

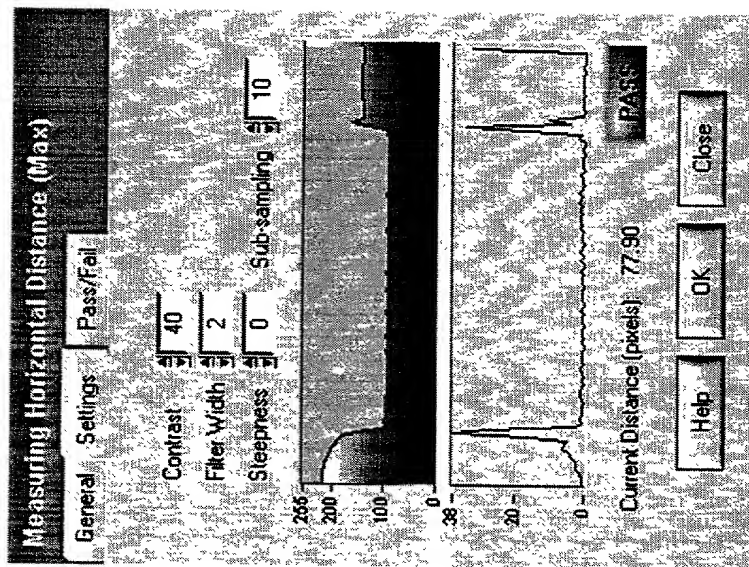


FIG. 12

Measuring Horizontal Distance (Max)

General Settings Pass/Fail

Pass Conditions

☒ Minimum Distance (Pixels) 75.00

☒ Maximum Distance (Pixels) 80.00

Current Distance (pixels): 79.90

PASS

Help Replace Done

FIG. 13

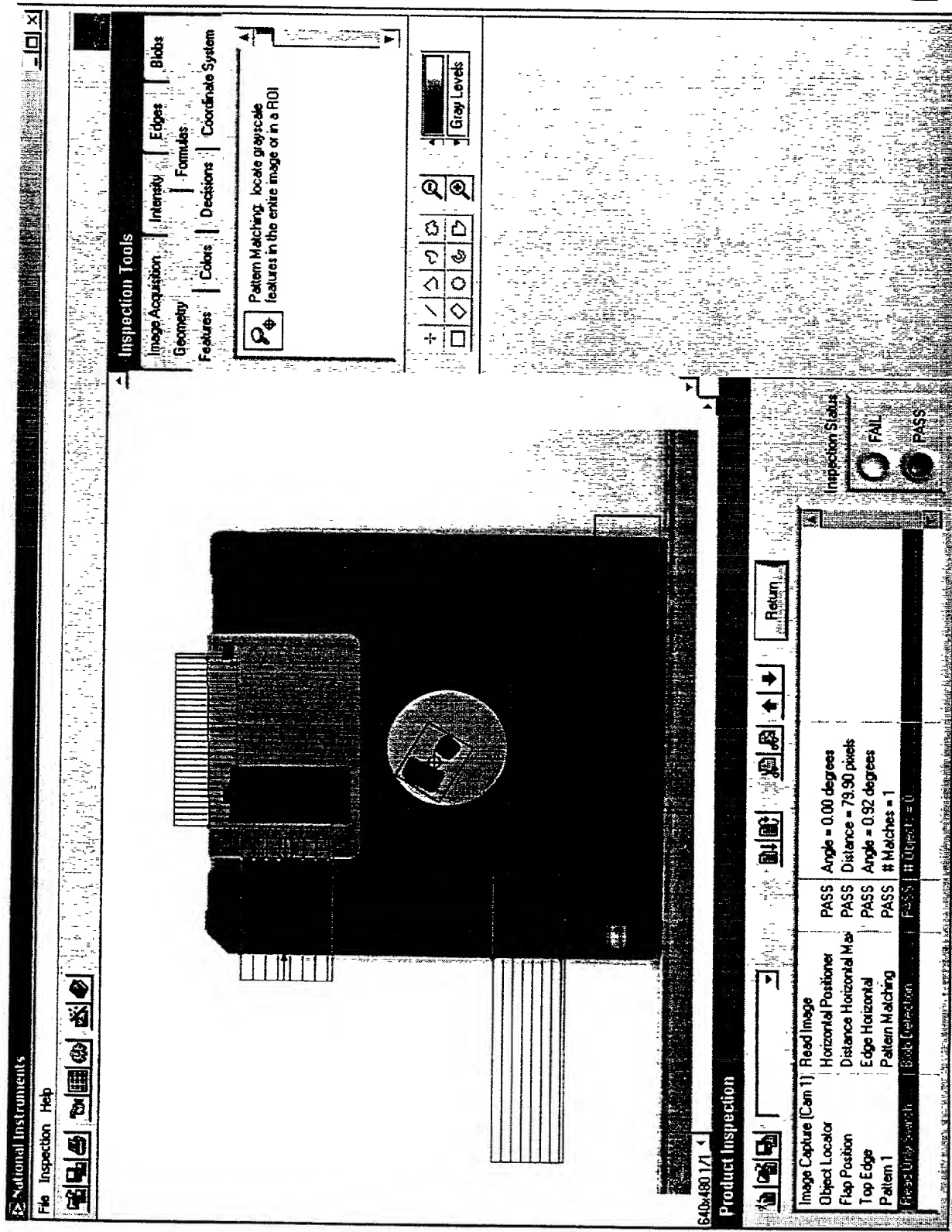


FIG. 14

FIG. 15

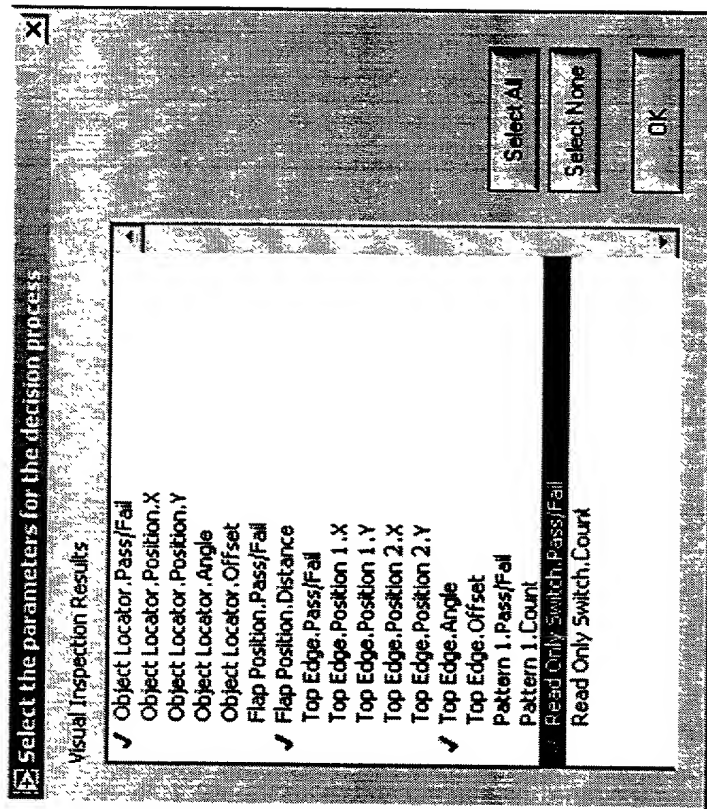


FIG. 16

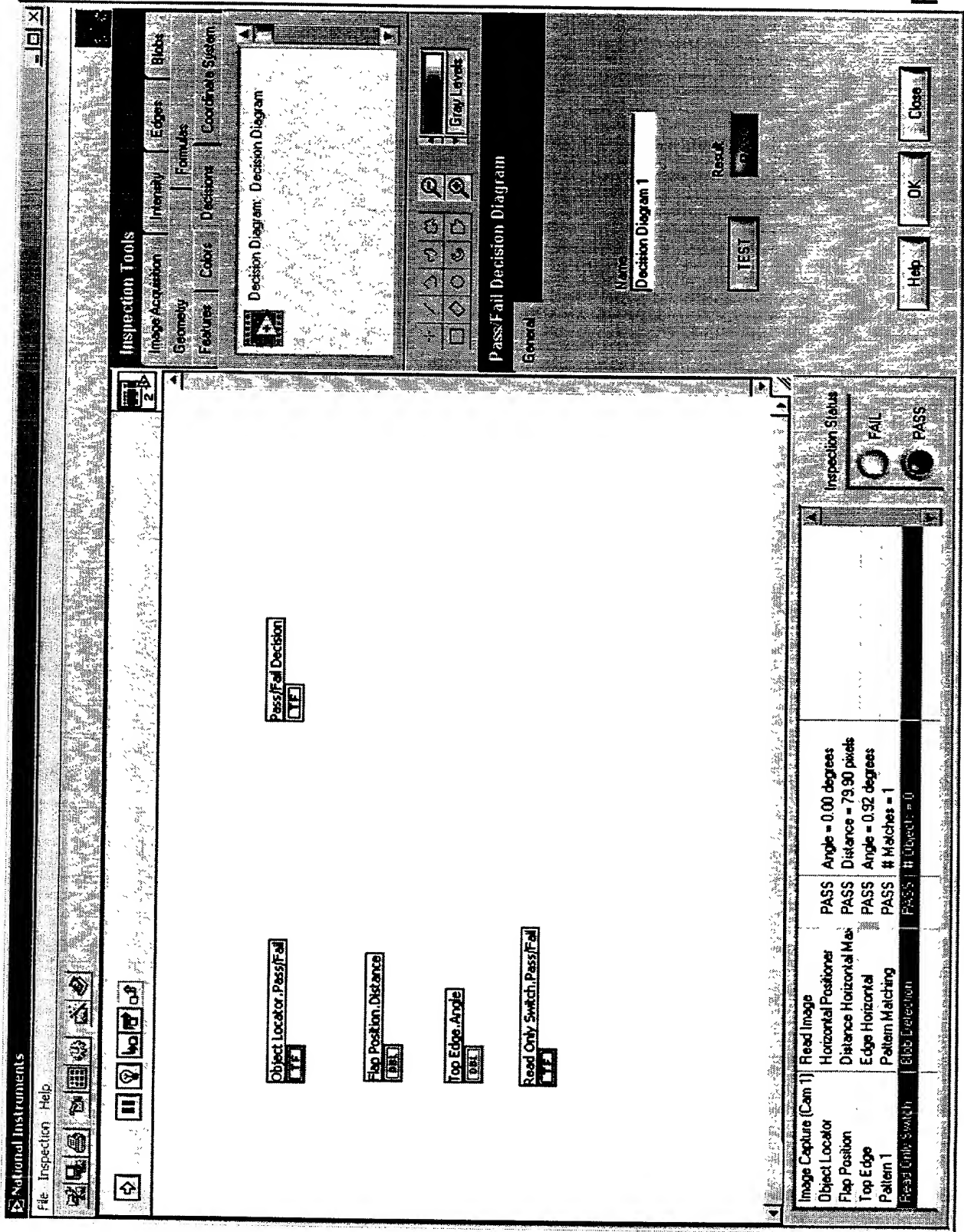


FIG. 17

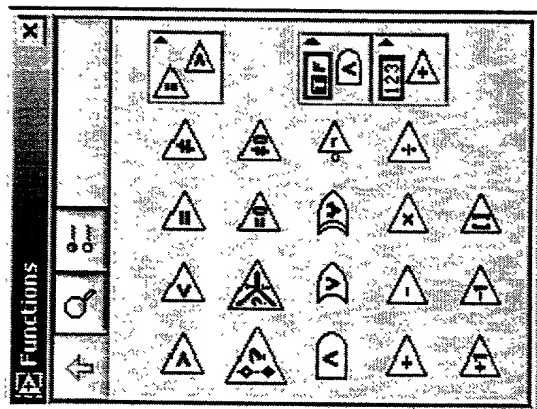


FIG. 18

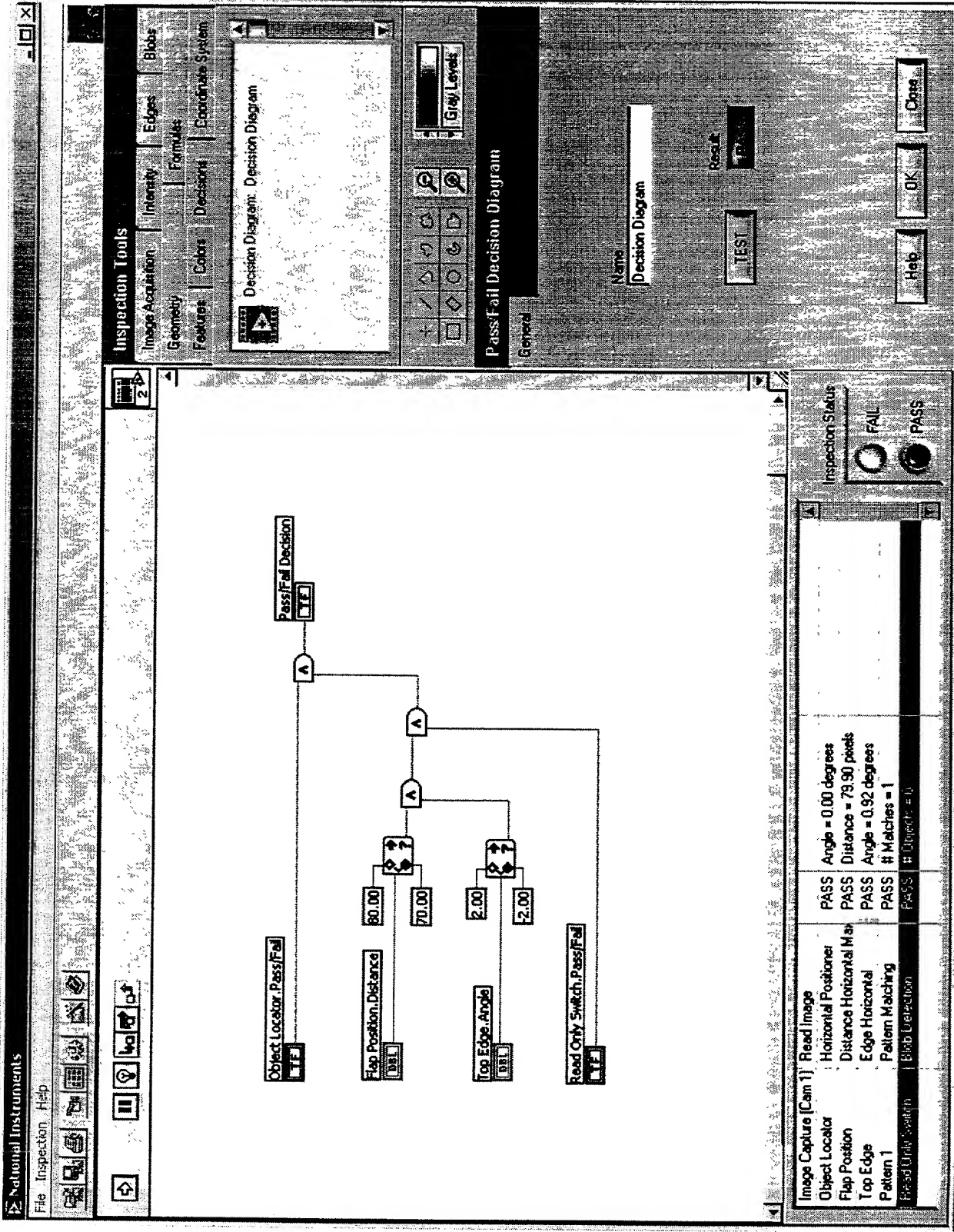


FIG. 19

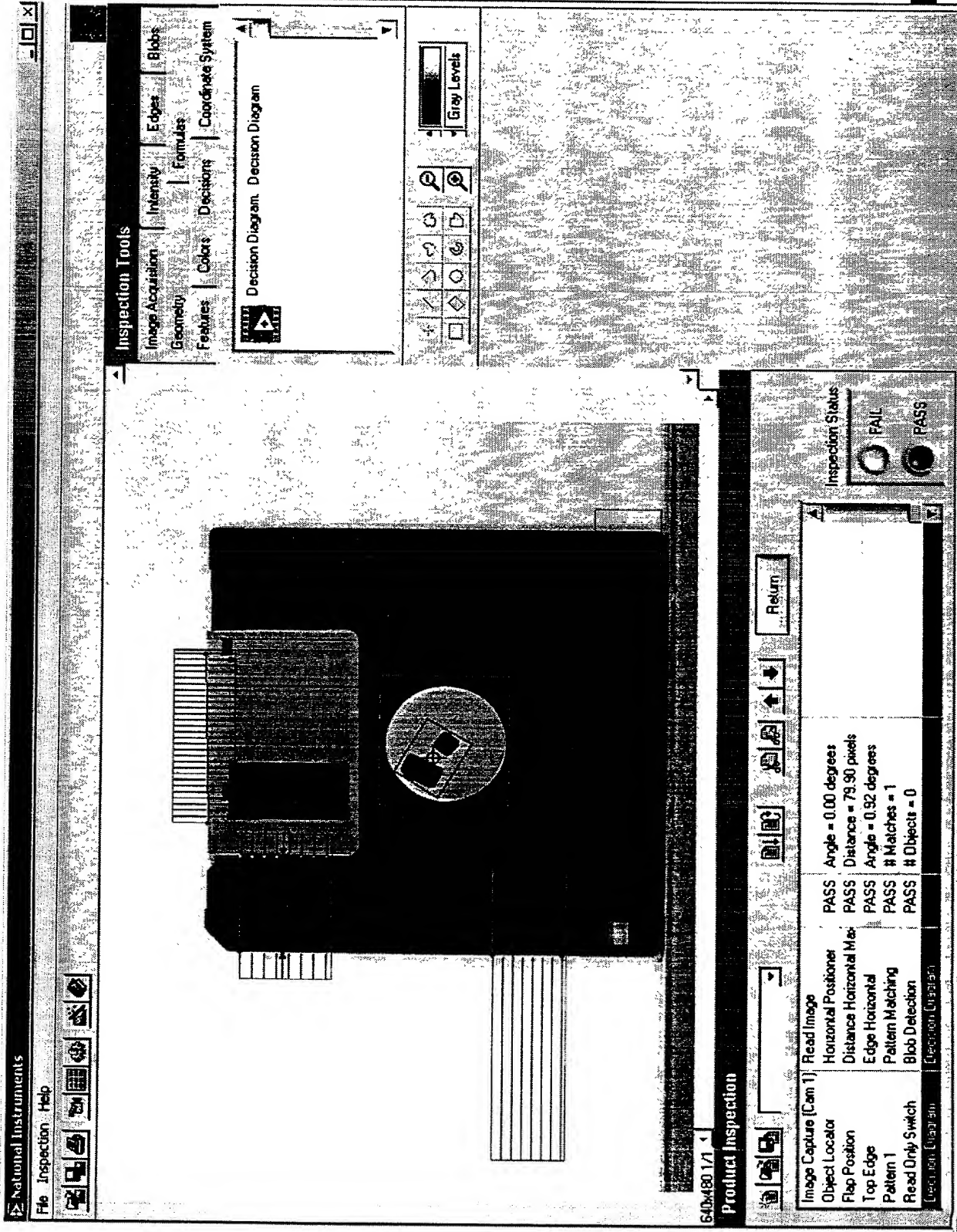


FIG. 20

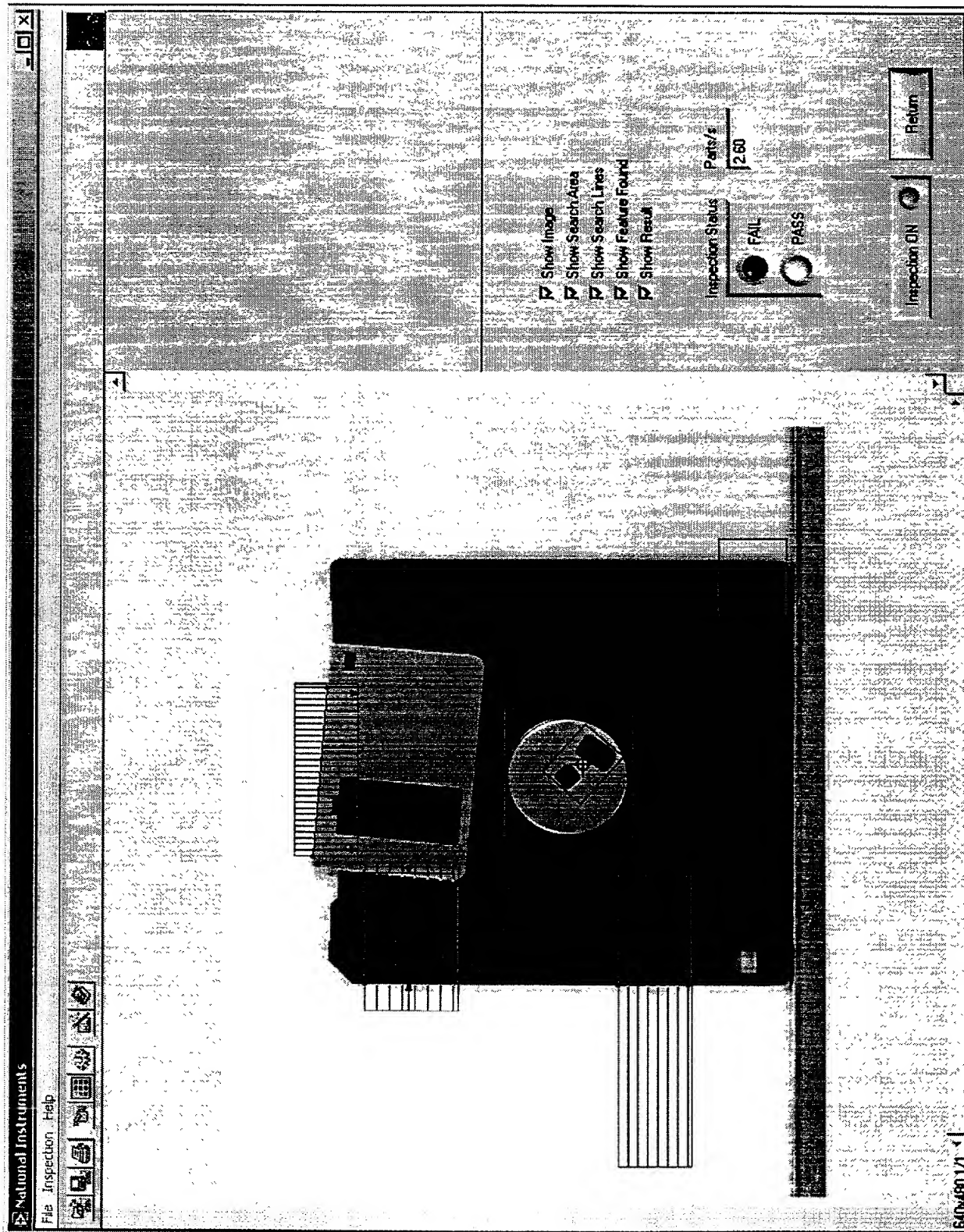


FIG. 21